**Generic Study Plan for BSc. in Information Technology**

**Cohort fall 2019 and after - Total = 130 credit hours**

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| Year 1 - First Semester | | | | Year 1 - Second Semester | | | |
| **Course #.** | **Course Title** | **Pre-req.** | **Cr.** | **Course #.** | **Course Title** | **Pre-req.** | **Cr.** |
| ESPU1081 | ESP1 |  | 3 | CENG202 | Discrete Mathematics | MATH105 | 3 |
| MATH105 | Calculus I | - | 3 | MATH110 | Calculus II | MATH105 | 3 |
| CSBP119 | Algorithms and Prob. Solving | - | 3 | CSBP219 | Object-Oriented Prog. | CSBP119 | 3 |
| PHYS105 | General Physics I | - | 3 | CENG205 | Digital Design & Com Org. |  | 3 |
| GEIT112 | Fourth Industrial Revolution |  | 3 | CSBP221 | Programming Lab II | CSBP121,CSBP219(co) | 1 |
| CSBP121 | Programming Lab I | CSEB119 (Co) | 1 | HSS105 | Emirates Society |  | 3 |
|  |  |  |  |  |  |  |  |
|  | Semester Credit Hours | | 16 |  | Semester Credit Hours | | 16 |
| **Year 2 - First Semester** | | | | **Year 2 - Second Semester** | | | |
| **Course #.** | **Course Title** | **Pre-Req.** | **Cr.** | **Course #.** | **Course Title** | **Pre-Req.** | **Cr.** |
| STAT210 | Probability and Statistics | MATH110 | 3 | CSBP340 | Database Systems | CSBP319 | 3 |
| GESU121 | Sustainability |  | 3 | Elective | Cultural Elective 1 | Elective | 3 |
| CENG210 | Comm. & Net. Fund | CEN205(co/pre) & PHYS105 | 3 | CENG530 | Network Protocols | CENG210 | 3 |
| ITBP280 | IT Project Mang & Exh | CSBP219 | 3 | CENG529 | Network Protocols Lab | Co CENG530 ,CENG210 | 1 |
| CSBP319 | Data Structures | CSBP219 | 3 | ITBP301 | Sec. Principles and Practice | CENG210 | 3 |
|  | Semester Credit Hours | | 15 |  | Semester Credit Hours | | 13 |
| **Year 3 - First Semester** | | | | **Year 3 - Second Semester** | | | |
| **Course #.** | **Course Title** | **Pre-Req.** | **Cr.** | **Course #.** | **Course Title** | **Pre-Req.** | **Cr.** |
| ITBP321 | Web App. Development Lab | Co/Pre CSBP340 | 1 | ITBP370 | Prof. Res. In IT | ESPU1081 | 3 |
| ITBP322 | Web & Mobile Systems | CSBP219, Co-ITBP321 | 3 | CSBP316 | Human Computer Interaction | CSBP219 | 3 |
| BIOC100 or CHEM111 | Basic Bio. I or  Gen. Chemistry |  | 3 | ITBP324 | Cloud Computing Fund. | CSBP315 | 3 |
| ITBP323 | System Integration & Admin | CSBP315 | 3 |
| CSBP315 | Operating Systems Fundamentals | CENG205 | 3 |  | Major elective 1\*\* |  | 3 |
| CSBP320 | Datamining | STAT210 | 3 |  |  |  |  |
|  | Semester Credit Hours | | 13 |  | Semester Credit Hours | | 15 |
| **Year 4 - First Semester** | | | | **Year 4 - Second Semester** | | | |
| **Course #.** | **Course Title** | **Pre-Req.** | **Cr.** | **Course #.** | **Course Title** | **Pre-Req.** | **Cr.** |
| ITBP418 | Entrepreneurship in IT | ITBP301 or ITBP280 | 3 | Elective | Cultural Elective 2 |  | 3 |
| CSBP 301 | Artificial Intelligence | CSBP319 | 3 |  | Major elective 3\*\* |  | 3 |
| ISLM100 | Islamic Culture |  | 3 |  | Free Elective |  | 3 |
| ITBP480 | Senior Graduation Project I | STAT210 | 3 |  | Free Elective |  | 3 |
|  | Major Elective 2\*\* |  | 3 | ITBP481 | Senior Graduation Project II | ITBP480 | 3 |
|  | Semester Credit Hours | | 15 |  | Semester Credit Hours | | 15 |
| **Year 5 - First Semester** | | | |  | | | |
| ITBP495: Internship (12 credit hours)  *(Students are not Allowed to register any additional courses during their Internship without the approval of the College)* | | | | | | | |

\*Students must have finished 80 CrHr to register in ITBP480

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| Major electives Courses\*\* | Pre-req. | Major electives Courses\* | Pre-req. |
| CSBP483 Mobile Web Content and Development | STAT210 | **ITBP410 The Internet of Things** | CENG530 |
| ISEC411 Privacy and Anonymity | CSBP320 | **ITBP420 Data Analytics** | CSBP320 |
| ITBP421 Big Data Analytics | ITBP 420 | ITBP430 Mobile Computing | ITBP322 |

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| **Cultural Elective Courses** | | |
| **Social and Behavioral Sciences (3 Cr. Hrs. )** | | |
|  | AGRB 210 | Introduction to Agribusiness |
|  | ECON 110 | Principles of Economics |
|  | HSR 140 | Introduction to Society and Behavior |
|  | HSR 150 | Introduction to Government, Policy, and Urban Studies |
|  | PSY 100 | Introduction to Psychology |
|  | GEO 200 | World Regional Geography |
|  | GHEP111 | Happiness and Wellbeing |
| **Humanities/Fine Art (3 Cr. Hrs. )** | | |
|  | ARCH 366 | History and Theory of Architecture |
|  | HSR  120 | Introduction to Heritage and Culture |
|  | HSR  130 | Introduction to Language and Communication |
|  | PHI101 | Introduction to Philosophy |
|  | HIS 130 | Sheikh Zayed; History, Found.& Dev. |
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